



Question Bank

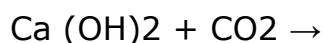
Grade 7- Science

Chapter 5-Physical and Chemical Changes

Answer the following questions:

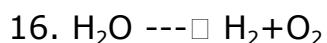
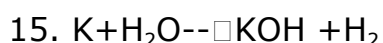
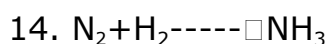
1. Why is it important to stir the water and gradually add copper sulphate powder?
2. What would happen if the saturated solution were not filtered immediately after adding the copper sulphate powder?
3. Explain why allowing the saturated solution to cool slowly is essential for growing well-formed copper sulphate crystals.
4. Why is the chemical formula of a molecule fixed?
5. Do you think the number of atoms in reactants is different from the number of atoms in products? Discuss.
6. How does the formation of water (H₂O) from hydrogen (H₂) and oxygen (O₂) represent a combination reaction?
7. What is a decomposition reaction, and how does it differ from a combination reaction?
8. In the nail rusting experiment, how can you prevent rust formation?
9. Explain a combination reaction with an example. Write the relevant balanced equation.
10. Explain with examples how chemical changes differ from physical changes, and why it is important to distinguish between the two in daily life?

11. Complete the following reaction



12. What is the nature of magnesium oxide solution?
13. Write the differences between physical and chemical changes.

Balance the following equation:



17. What happens when an iron blade of a knife is dipped in a copper sulphate solution? What kind of change takes place?

18. Rahul was a student of Class VII. His father purchased a new bicycle for him on his birthday. After few months, he found that the cycle chain and even the handle gets rusted. His father advised him to apply a coating of paint to the cycle and not to keep it in the open in future.

Now, answer the following questions:

- (a) Why his cycle gets rusted?
- (b) What do you mean by rusting of iron?
- (c) What values are shown by Rahul's father?

19. When baking soda is mixed with vinegar, bubbles are formed with the evolution of a gas. Name the gas evolved. What happens when this gas is passed through lime water?

20. Why cannot a chemical change be normally reversed?